

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P526344

Luminaire Tested: **GALN-SA1B-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4713 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

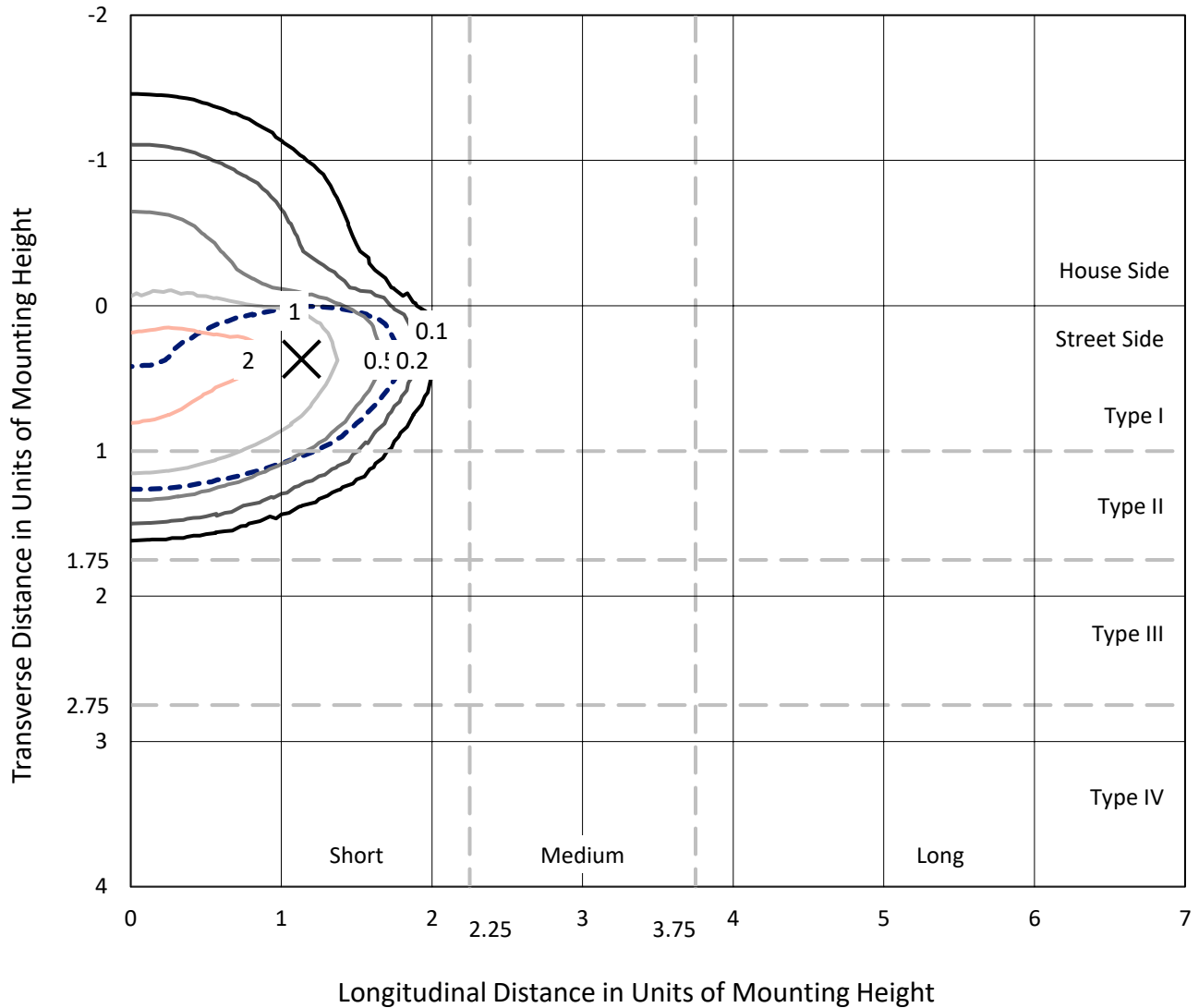
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

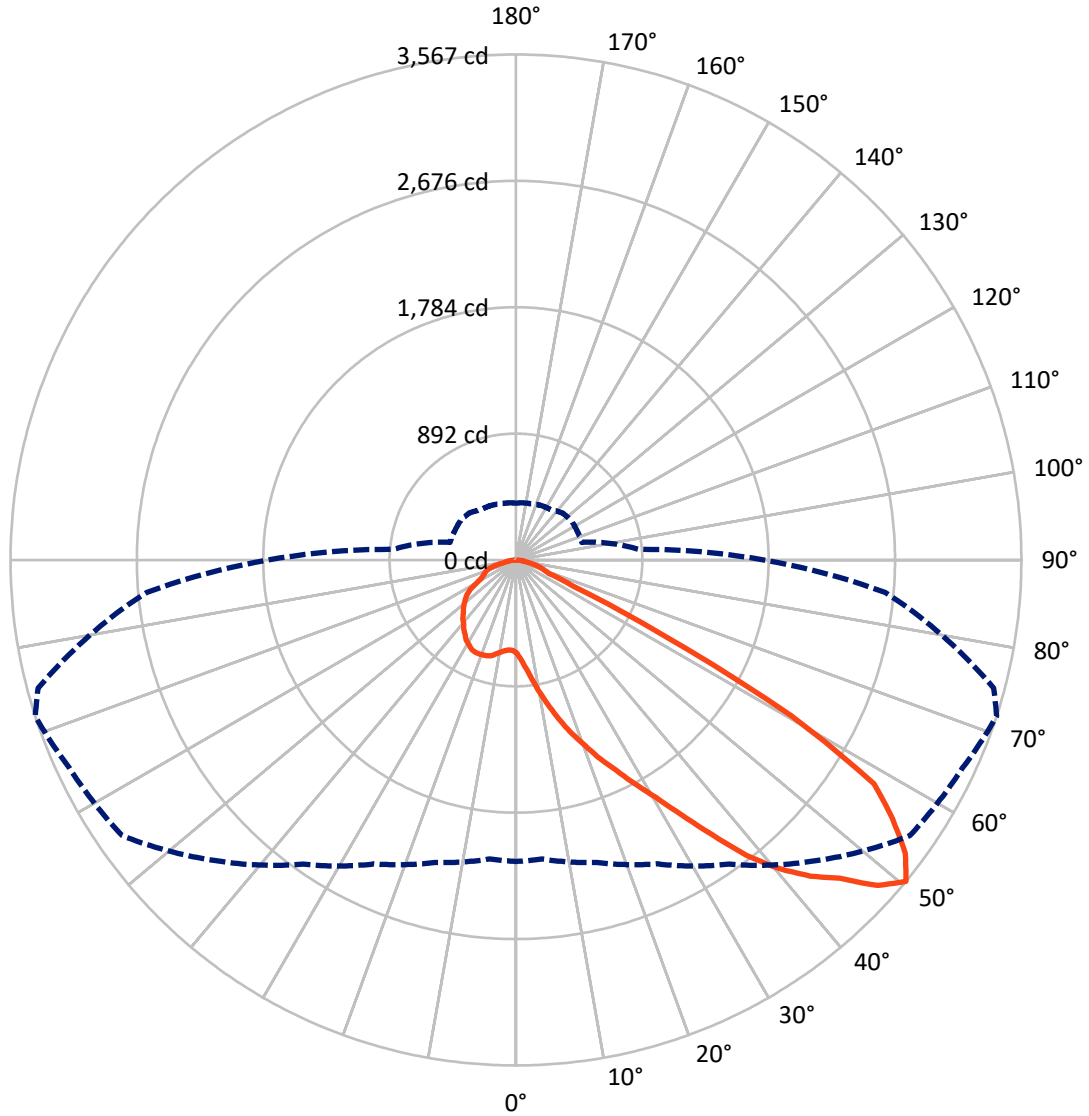
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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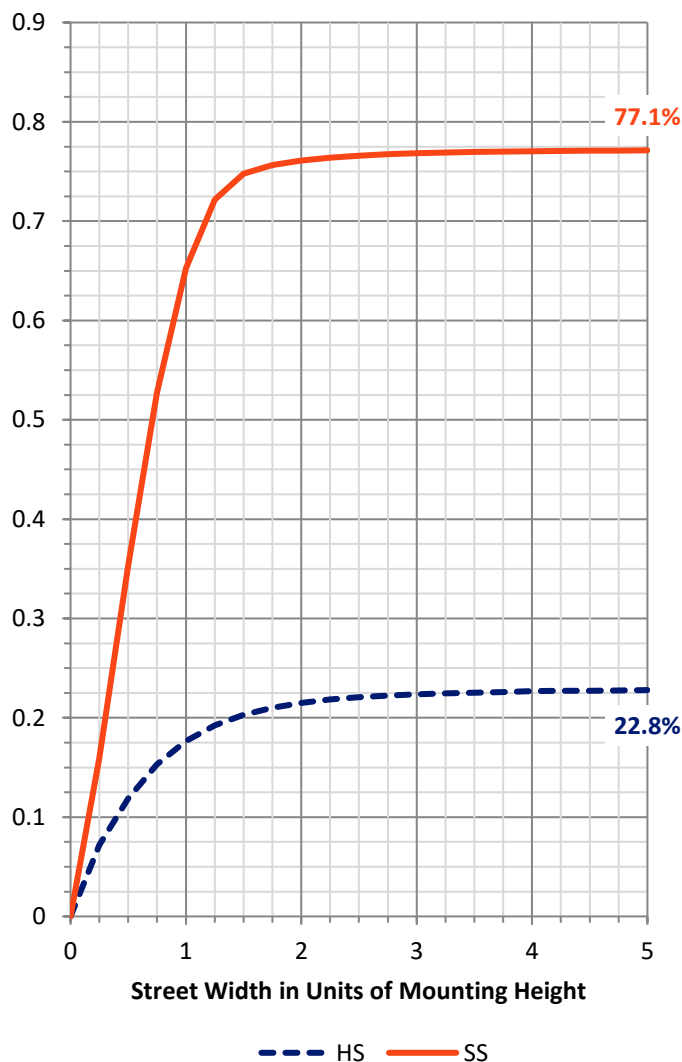
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1079.8	0.0	1079.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3633.2	0.0	3633.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	4713.0	0.0	4713.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.6
10°-20°	288.5	6.1
20°-30°	559.4	11.9
30°-40°	926.7	19.7
40°-50°	1296.7	27.5
50°-60°	1093.9	23.2
60°-70°	333.4	7.1
70°-80°	117.0	2.5
80°-90°	20.3	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4713.0	100.0
0°-180°	4713.0	100.0



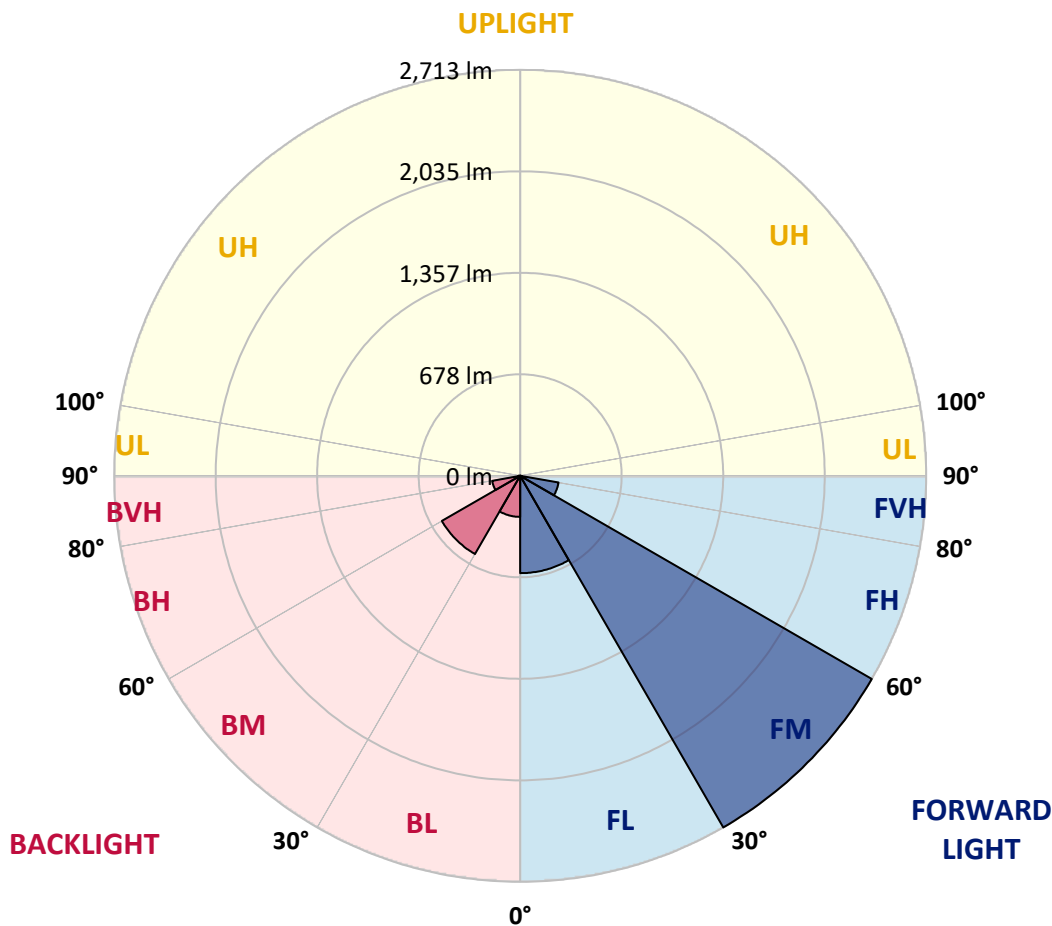
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	650.6	13.8			
FM (30°-60°)	2713.4	57.6			
FH (60°-80°)	260.2	5.5			G0/660
FVH (80°-90°)	9.1	0.2			G0/10
BL (0°-30°)	274.5	5.8	B1/500		
BM (30°-60°)	603.8	12.8	B1/1000		
BH (60°-80°)	190.2	4.0	B1/500		G1/500
BVH (80°-90°)	11.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
2.5°	843.9	838.6	822.9	817.6	799.0	765.1	753.5	719.1	704.5	691.1	675.3
5°	1067.2	1042.7	1041.0	1011.3	968.1	943.0	868.4	818.2	772.1	748.8	705.7
7.5°	1209.5	1210.1	1210.1	1185.6	1151.2	1087.7	1020.6	930.2	860.8	826.4	752.9
10°	1344.8	1333.2	1326.8	1324.4	1301.1	1239.3	1167.5	1055.6	960.5	920.3	788.5
12.5°	1440.5	1430.6	1445.1	1437.6	1420.7	1380.4	1312.8	1185.0	1066.1	1011.8	845.6
15°	1486.0	1493.0	1504.6	1525.6	1518.0	1502.9	1428.2	1318.0	1179.8	1118.6	896.4
17.5°	1556.0	1536.7	1550.7	1576.9	1597.9	1590.9	1548.4	1414.2	1292.4	1217.1	964.6
20°	1604.9	1593.9	1600.9	1631.2	1646.9	1686.6	1664.4	1540.2	1400.2	1320.9	1045.1
22.5°	1744.9	1728.6	1705.8	1710.5	1716.3	1744.3	1749.6	1678.4	1525.6	1441.6	1121.5
25°	1917.5	1902.4	1875.5	1848.1	1831.2	1826.0	1844.0	1786.9	1645.8	1558.9	1203.7
27.5°	2107.7	2082.0	2065.1	2008.5	1963.0	1956.0	1947.3	1916.4	1788.1	1694.2	1296.4
30°	2292.5	2272.1	2249.4	2159.0	2111.7	2104.2	2061.0	2069.7	1942.6	1838.2	1401.4
32.5°	2432.5	2434.2	2382.3	2314.1	2269.8	2229.5	2213.8	2238.9	2140.9	2056.9	1518.6
35°	2545.6	2550.9	2501.3	2439.5	2391.7	2419.7	2412.7	2424.3	2377.7	2275.0	1655.1
37.5°	2655.9	2629.6	2576.5	2546.8	2521.7	2567.8	2627.3	2637.2	2645.9	2525.2	1813.7
40°	2673.9	2676.3	2645.4	2666.3	2634.9	2704.3	2842.5	2829.6	2865.2	2759.7	1985.8
42.5°	2648.3	2653.5	2665.8	2695.5	2771.3	2854.7	3060.0	3007.5	3050.7	2956.8	2153.1
45°	2606.3	2584.7	2599.9	2713.0	2844.2	3029.7	3258.9	3218.0	3204.1	3125.3	2352.6
47.5°	2405.7	2427.8	2475.1	2614.4	2811.6	3060.0	3400.0	3390.7	3432.7	3377.3	2534.0
50°	2127.5	2118.7	2209.7	2366.6	2620.9	3000.5	3392.4	3477.0	3567.4	3490.4	2615.0
52.5°	1593.3	1639.9	1718.1	1912.9	2275.6	2676.3	3226.8	3367.9	3441.4	3425.1	2549.7
55°	1007.2	1021.2	1068.4	1299.9	1626.5	2147.9	2766.1	3093.2	3224.5	3285.7	2489.6
57.5°	489.3	463.1	520.8	706.8	939.5	1444.6	2133.3	2694.3	2979.5	3090.3	2359.0
60°	255.4	265.4	288.1	354.6	485.8	750.0	1329.7	1795.6	2231.3	2401.6	1788.1
62.5°	211.7	215.2	230.4	263.6	323.1	431.6	678.8	875.4	1137.8	1291.2	1017.1
65°	179.6	181.4	197.7	219.9	257.8	303.8	349.3	365.7	442.6	454.3	361.6
67.5°	149.9	151.6	169.1	190.1	214.6	226.9	238.5	237.4	246.1	242.6	242.0
70°	115.5	117.2	135.3	157.5	169.7	162.7	198.9	207.0	210.5	213.4	218.1
72.5°	83.4	86.9	100.9	116.6	110.2	126.6	163.9	176.1	180.8	182.5	188.4
75°	60.7	61.8	65.3	60.7	70.0	88.1	115.5	130.6	136.5	138.2	147.0
77.5°	26.8	27.4	28.0	35.0	44.9	54.8	68.8	81.1	89.2	91.6	93.9
80°	14.0	14.6	18.1	23.9	32.1	40.2	50.2	57.2	62.4	63.0	65.3
82.5°	8.7	9.3	12.8	16.9	22.7	29.7	36.7	42.6	46.7	47.2	47.8
85°	4.1	5.2	7.6	10.5	15.2	19.2	19.8	16.9	18.1	18.7	17.5
87.5°	1.2	1.7	2.3	1.7	2.3	2.3	2.9	3.5	3.5	3.5	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
2.5°	666.6	661.3	640.9	633.3	613.5	617.0	606.5	605.9	603.6	603.0	602.4
5°	682.9	666.6	642.1	623.4	612.4	611.2	603.6	603.6	605.9	607.7	603.6
7.5°	709.7	691.1	649.7	632.2	622.3	620.5	615.3	611.2	616.4	614.7	610.0
10°	740.7	708.0	664.3	649.1	632.8	628.7	628.7	630.4	621.7	624.6	619.9
12.5°	775.1	731.3	682.9	665.4	646.2	643.8	642.7	629.8	634.5	632.2	620.5
15°	818.8	758.1	706.8	677.1	660.8	650.3	635.1	632.8	629.8	624.0	618.8
17.5°	866.0	787.3	717.9	680.6	656.1	648.5	636.8	624.6	615.8	617.0	612.9
20°	906.3	814.1	722.0	684.1	652.6	638.0	619.9	612.4	603.0	602.4	601.9
22.5°	954.1	850.3	727.8	674.8	642.1	626.9	614.7	601.3	594.9	586.7	590.8
25°	1011.3	864.3	729.0	669.5	634.5	607.7	601.3	586.7	584.4	572.7	575.0
27.5°	1052.7	871.9	719.7	653.2	617.0	596.6	584.9	574.4	570.4	561.6	559.3
30°	1108.1	883.5	699.8	632.8	599.5	576.8	569.8	567.4	555.8	546.4	545.3
32.5°	1171.0	891.1	687.0	611.8	581.4	563.9	567.4	556.4	541.8	533.6	531.3
35°	1221.2	894.0	654.9	587.9	569.2	558.1	554.0	551.7	530.7	523.1	517.3
37.5°	1297.6	887.6	628.1	570.9	555.8	551.7	548.2	532.5	508.5	497.5	489.3
40°	1386.8	885.9	593.7	547.0	543.0	547.6	537.1	512.6	479.4	467.1	461.3
42.5°	1472.6	898.1	572.1	534.2	529.0	530.7	516.1	479.4	463.1	456.1	446.7
45°	1616.0	923.8	536.5	514.4	512.0	510.9	493.4	454.9	445.6	436.8	435.1
47.5°	1745.5	906.9	513.8	494.0	496.3	489.9	452.6	440.3	429.8	421.1	418.1
50°	1753.1	866.6	481.7	478.2	478.8	467.7	432.1	424.0	410.6	404.7	400.7
52.5°	1713.4	800.7	452.0	453.1	454.9	436.8	407.1	401.2	390.2	382.0	379.7
55°	1602.0	698.1	422.8	427.5	432.1	397.7	388.4	373.8	365.1	353.4	354.0
57.5°	1411.3	562.2	382.0	389.6	399.5	361.6	354.6	336.5	323.7	314.3	313.2
60°	945.9	400.1	320.8	323.7	345.8	330.7	330.1	312.0	294.5	286.3	281.7
62.5°	558.1	305.6	277.0	274.1	273.5	282.3	296.8	290.4	267.7	251.9	256.6
65°	292.2	264.2	257.8	247.9	242.0	239.7	250.8	253.7	238.5	221.6	220.4
67.5°	245.5	245.5	240.3	236.8	228.6	218.7	211.7	202.4	200.0	195.4	189.5
70°	223.4	229.2	227.4	219.3	212.3	201.2	183.1	168.0	153.4	148.1	151.6
72.5°	194.8	200.6	200.6	196.5	187.2	170.3	152.8	135.3	123.1	113.7	112.6
75°	149.9	152.8	159.8	155.1	142.9	132.4	114.3	96.2	84.6	75.8	74.1
77.5°	95.6	100.3	100.3	99.7	91.0	81.1	69.4	56.6	47.8	41.4	39.7
80°	63.6	66.5	68.8	66.5	60.7	53.1	44.3	35.6	29.2	23.9	22.7
82.5°	46.7	50.2	51.9	49.6	43.7	37.9	31.5	25.1	18.7	14.6	13.4
85°	18.1	18.7	21.0	25.1	24.5	23.9	19.2	14.0	10.5	7.6	7.0
87.5°	4.7	4.1	4.7	4.7	4.1	3.5	3.5	3.5	3.5	1.7	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)